

What is claimed is:

Subc 17 ① A nozzle for ultrasound wound treatment, for producing a spray of liquid using an ultrasound transducer tip, directing and delivering said spray onto the wound surface, comprising:

5 a main body having a proximal end that removably attaches to an ultrasound transducer,

said main body also having a distal end which is marginally close to the free distal end of ultrasound transducer tip,

10 said distal end of said main body having a gap with said distal end of said ultrasound transducer tip,

said distal end of main body being coaxially placed about the said ultrasound transducer tip,

15 said main body being connected with at least one reservoir, for holding and delivering a wound treatment solution to the distal end or the marginally close radial side of said ultrasound transducer tip.

2. A nozzle according to Claim 1, wherein said main body is connected with two or more reservoirs, holding and delivering different wound treatment solutions separately to the distal end or marginally close radial side of said ultrasound transducer tip to be mixed and sprayed onto the wound.

20 3. A nozzle according to Claim 1, wherein said main body is connected with at least one reservoir and at least one gas tube, for delivering different wound treatment solutions and gas separately to the distal end or marginally close radial side of said ultrasound transducer tip to be mixed and sprayed onto the wound.

25 ④ A nozzle for ultrasound wound treatment according to Claim 1 for producing a spray of liquid using an ultrasonic transducer tip, directing and delivering said spray onto said wound surface, further comprising valve for controlling flow rate.

5. A nozzle according to Claim 4, wherein said main body has a trigger for controlling the position of said valve.

6. A nozzle according to Claim 1, wherein a distal end of nozzle from inside is cylindrical.

5 7. A nozzle according to Claim 1, wherein a distal end of nozzle from inside is cone.

8. A nozzle according to Claim 1, wherein the distal end of the nozzle from the inside is oval.

10 9. A nozzle according to Claim 1, wherein the distal end of the nozzle from the inside is elliptic.

10. A nozzle according to Claim 1, wherein the distal end of the nozzle from the inside is rectangular.

11. A nozzle according to Claim 1, wherein the distal end of the nozzle from the inside is multiangular.

15 12. A nozzle according to Claim 1, wherein the distal end of the nozzle from the inside is threaded.

13. A nozzle according to Claim 1, wherein the distal end of the nozzle from the inside is combination of different form.

20 14. A nozzle according to Claim 1, wherein the distal end of the nozzle from the outside is cylindrical.

15. A nozzle according to Claim 1, wherein the distal end of the nozzle from the outside is cone.

16. A nozzle according to Claim 1, wherein the distal end of the nozzle from the outside is oval.

25 17. A nozzle according to Claim 1, wherein the distal end of the nozzle from the outside is elliptic.

18. A nozzle according to Claim 1, wherein the distal end of the nozzle from the outside is rectangular.

19. A nozzle according to Claim 1, wherein the distal end of the nozzle from the outside is mutiangular.

5 20. A nozzle according to Claim 1, wherein the distal end of the nozzle from outside is a combination of different forms.

21. A nozzle according to Claim 1, wherein the main body of the nozzle has a reservoir on the top.

10 22. A nozzle according to Claim 1, wherein the main body of the nozzle has a reservoir on the bottom.

23. A nozzle according to Claim 1, wherein the main body of the nozzle has a reservoir on the side.

24. A nozzle according to Claim 1, wherein the main body of the nozzle is connected with the said reservoir via hose/tube.

15 25. A nozzle according to Claim 1, wherein the main body of the nozzle has a rigidly connected reservoir.

26. A nozzle according to Claim 1, wherein the main body of the nozzle has an elastic reservoir.

20 27. A nozzle according to Claim 2, wherein a valve is located in main body of the said nozzle.

28. A nozzle according to Claim 2, wherein a valve is located in the said reservoir.

29. A nozzle according to Claim 2, wherein a valve is located between the said reservoir and said main body of the nozzle.

25 30. A nozzle according to Claim 1, wherein said nozzle has no valve and liquid is delivered from said reservoir to the distal end of ultrasound transducer tip via a pump or mechanical squeezing.

31. A nozzle according to Claim 1, wherein said nozzle is made from distinct pieces

32. A nozzle according to Claim 1, wherein said nozzle is made from one piece.

5 33. A nozzle according to Claim 1, wherein the shape of the distal end of the said main body is a rectangle.

34. A nozzle according to Claim 1, wherein the shape of the distal end of the said main body is a cut.

35. A nozzle according to Claim 1, wherein the shape of the distal end of the said main body is a double cut.

10 36. A nozzle according to Claim 1, wherein the shape of the distal end of the said main body is a spherical/elliptic/oval.

37. A nozzle according to Claim 1, wherein the shape of the distal end of the said main body is waved.

15 38. A nozzle according to Claim 1, wherein the shape of the distal end of the said main body is a combination of different form.

39. A nozzle according to Claim 1, wherein the nozzle is self destructing with the first use.

40. A nozzle according to Claim 1, wherein the nozzle is sterile.

41. A nozzle according to Claim 1, wherein the nozzle is sterilizable.

20 42. A nozzle according to Claim 1, wherein the nozzle is disposable.

43. A nozzle according to Claim 1, wherein a part of nozzle is disposable.

*Add A2*